

DECLARATION and POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

BIOCONVERSION OF A FERMENTABLE CARBON SOURCE TO 1,3-PROPANEDIOL BY A SINGLE MICROORGANISM

the specification of which is attached hereto unless the following box is checked:

☐ was filed on _____ as U.S. Application No. _____ or PCT International Application No. _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is known to me to be material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Application No.	Country	Filing Date	Priority Claimed (Yes/No)
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I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States Provisional Application(s) listed below.

U.S. Provisional Application No.	U.S. Filing Date
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I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International Application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or PCT International Application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is known to me to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Application No.	Filing Date	Status (patented, pending or abandoned)
08/440,293	12 May 1995	Pending
PCT/US96/06705	10 May 1996	Pending

POWER OF ATTORNEY: I hereby appoint the following attorney(s) and/or agent(s) the power to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Name: LINDA A. FLOYD	Registration No.: 33,692
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Send correspondence and direct telephone calls to: LINDA A. FLOYD	E. I. du Pont de Nemours and Company Legal - Patents Wilmington, DE 19898, U.S.A.	Tel. No. (302) 992-4929
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

INVENTOR(S)

Full Name of Inventor	Last Name LAFFEND	First Name LISA	Middle Name ANNE
	Signature (please sign full name): <i>Lisa Anne Laffend</i>		Date: <i>May 30, 1996</i>
Residence & Citizenship	City CLAYMONT	State or Foreign Country DELAWARE	Country of Citizenship U.S.A.
Post Office Address	Post Office Address 2 MOUNT VERNON DRIVE	City CLAYMONT	State or Country DELAWARE
			Zip Code 19703
Full Name of Inventor	Last Name NAGARAJAN	First Name VASANTHA	Middle Name
	Signature (please sign full name): <i>Vasantha Nagarajan</i>		Date: <i>May 30, 1996</i>
Residence & Citizenship	City WILMINGTON	State or Foreign Country DELAWARE	Country of Citizenship U.S.A.
Post Office Address	Post Office Address 13 DICKINSON LANE	City WILMINGTON	State or Country DELAWARE
			Zip Code 19807
Full Name of Inventor	Last Name NAKAMURA	First Name CHARLES	Middle Name EDWIN
	Signature (please sign full name): <i>Charles Edwin Nakamura</i>		Date: <i>May 30, 1996</i>
Residence & Citizenship	City CLAYMONT	State or Foreign Country DELAWARE	Country of Citizenship U.S.A.
Post Office Address	Post Office Address 2 MOUNT VERNON DRIVE	City CLAYMONT	State or Country DELAWARE
			Zip Code 19703

LEGAL POWER OF ATTORNEY
(Continued) **Several International Patent Applications**

The undersigned, **JAMES L. JERSILD**, Vice Chairman of the Patent Board, of **E. I. DU PONT DE NEMOURS AND COMPANY**, 1007 Market Street, Wilmington, Delaware 19898 US, ("DuPont"), hereby confirms that the power to sign for DuPont has been granted to various individuals (as set forth in the attached excerpt from DuPont's Patent Board Rules of Procedure (Jan.1988), Appendix Section III.A.4), including the Chairman, Vice-Chairman and those individuals who are Assistant Secretaries of the Patent Board. Currently these Assistant Secretaries are:

Alanson G. Bowen, Jr.
Theodore C. Gregory

Miriam D. Meconnahey
Nadine Lang

The present Vice Chairman of the Patent Board is **JAMES L. JERSILD**.

In addition, the authority to act on behalf of DuPont before the competent International Authorities in connection with any and all international patent applications filed by it with the United States of America as Receiving Office and to make or receive payments on its behalf is hereby granted to:

NAME	REG. #	NAME	REG. #	NAME	REG. #
BIRCH, Linda D.	38,719	GORMAN, Thomas W.	31,959	MAYER, Nancy S.	29,190
BLACK, Robert W.	19,688	GOULD, David J.	25,338	McGEE, Patricia	37,391
BOWEN Jr., Alanson G.	24,027	GREGORY, Theodore C.	25,243	MEDWICK, George M.	27,456
BOYER, Michael K.	33,085	GRIFFITHS, John E.	32,647	MORRISSEY, Bruce W.	30,663
BROWDER, Monte R.	36,761	HAMBY, Jane O.	32,872	SANTOPIETRO, Lois A.	36,264
BURGESS, Richard H.	22,292	HAMBY, William H.	31,521	SCHAEFFER, Andrew L.	33,605
CAPLAN, Mark J.	33,661	HEISER, David E.	31,366	SCOTT, Patricia M.	33,068
CARROLL, Rodney B.	39,624	HENDRICKSON, John S.	30,847	SHAFFER, Robert J.	24,437
CHRISTENBURY, Lynne M.	30,971	HIGGS, W. Victor	25,877	SHIPLEY, James E.	32,003
COSTELLO, James A.	24,396	JACONETTY, Kenneth E.	32,508	SIEGELL, Barbara C.	30,684
DEITCH, Gerald E.	30,457	JERSILD, James L.	25,594	STEVENSON, Robert B.	26,039
DUFFY, Roseanne R.	33,869	KAEDING, Konrad S.	32,035	STRICKLAND, Frederick D.	39,041
DULL, John E.	20,822	KATZ, Elliott A.	26,396	SULLIVAN, Daniel W.	34,937
ESTRIN, Barry	26,452	KING, Karen K.	34,850	SUTHERLAND, Hoge T.	20,010
EVANS, Craig H.	31,825	KIRVAN, George E.	36,187	TESSARI, Joseph A.	32,177
FLOYD, Linda Axamethy	33,692	KLOCKO III, John J.	24,059	TOCKER, Edwin	20,341
FORSTNER, James A.	24,259	KRUKIEL, Charles E.	27,344	TULLOCH, Rebecca W.	36,297
FOWELL, Peter A.	36,512	LEVITT, Cary A.	31,848	WALKER, P. Michael	32,602
FRANK, George A.	27,636	LYNN, John M.	33,193	WEST Jr., Howard P.	22,500
FRICKE, Hilmar L.	22,384	MAGEE, Thomas H.	27,355	WESTPHAL, David W.	32,673
GOLIAN, Andrew G.	25,293	MALINOWSKI, Andrea V.	33,012	YUN, Caroline J.	34,952

The undersigned ratifies fully all actions already taken by the above-named individuals in accordance with the authority granted hereby.

E. I. DU PONT DE NEMOURS AND COMPANY

By: _____

JAMES L. JERSILD, Vice Chairman of the Patent Board

Date: _____

3/18/96